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Statshield® Transparent Metal Out ESD Shielding Bags



Charleswater ESD Bags meet EN 61340 5-1 requirements: 1. "Low charging packaging exhibiting properties which minimise any charge generation" [paragraph 3.18.1]. 2. "Electrostatic discharge shielding barrier or enclosure that limits the passage of current and attenuates the energy resulting from an electrostatic discharge such that the maximum energy from 1 000 V human body model discharge is less than or equal to 50 nJ" [paragraph 3.18.2.]. 3. Identified with ESD packaging symbol, manufacturer, and batch identification number [paragraph 4.1.2].

Features:

- **Aluminum metal outer layer of laminated film.**
Metal out required by many end users. Meets requirements of MIL-PRF-81705D, Type III
- **40% light transmission.**
Allows for easy identification of bag contents.
- **Integral antistatic, low tribocharging properties.**
Bag contents will not electrostatically charge during movement.
- **Integral static dissipative properties.**
Not topically treated, not humidity dependent, won't
- **Manufactured on specially designed soft fold converting machines.**
Prevents scratches and creases maintaining the integrity of Faraday Cage shielding protection.
- **Large 9.5mm wide seals - high performance interior sealing layer.**
Greater sealing surface provides greater seal strength compared to comparable products with 3.2mm wide seals; higher quality, more durable.
- **Marked in accordance with IEC 61340-5-1, paragraph 4.1.2.**
ESD packaging symbol communicates that contents are susceptible to damage from an ESD event if not properly handled.
- **Batch coded.**
Quality control traceability.
- **Polycarbonate compatible containing no amines or N- octanoic acid.**
Non-corrosive, will not contaminate parts.
- **Testable to industry standards.**
Meets or exceeds one or more of the following standards: electrical and physical requirements of IEC 61340-5-1, ANSI/ESD S20.20, Mil-PRF-81705D, EIA 541, EIA-625, MIL-HDBK-263, MIL-STD-1686, and EIA-583.
- **Optional antistatic zipper.**
Convenient recloseable seal; reusable.

- **Designed to meet the requirements of IEC 61340-5-1**
- **Sold 100 bags per package in an ESD barrier bag.**

P/N	Description
90300	75mm x 125mm, Open Bag
90302	100mm x 150mm, Open Bag
90304	100mm x 760mm, Open Bag
90306	125mm x 200mm, Open Bag
90308	150mm x 255mm, Open Bag
90310	150mm x 760mm, Open Bag
90312	200mm x 255mm, Open Bag
90314	200mm x 305mm, Open Bag
90316	255mm x 305mm, Open Bag
90318	255mm x 355mm, Open Bag
90320	255mm x 610mm, Open Bag
90322	280mm x 380mm, Open Bag
90324	305mm x 405mm, Open Bag
90326	305mm x 455mm, Open Bag
90328	380mm x 455mm, Open Bag
90330	455mm x 455mm, Open Bag
90332	455mm x 610mm, Open Bag
90400	75mm x 125mm, Resealable Bag
90402	100mm x 150mm, Resealable Bag
90404	100mm x 760mm, Resealable Bag
90406	125mm x 200mm, Resealable Bag
90408	150mm x 255mm, Resealable Bag
90410	150mm x 760mm, Resealable Bag
90412	200mm x 255mm, Resealable Bag
90414	200mm x 305mm, Resealable Bag
90416	255mm x 305mm, Resealable Bag
90418	255mm x 355mm, Resealable Bag
90420	255mm x 610mm, Resealable Bag
90422	280mm x 380mm, Resealable Bag
90424	305mm x 405mm, Resealable Bag
90426	305mm x 455mm, Resealable Bag

90428	380mm x 455mm, Resealable Bag
90430	455mm x 455mm, Resealable Bag
90432	455mm x 610mm, Resealable Bag

Drawings/Technical Bulletins: [90300.E](#) [90400.E](#)

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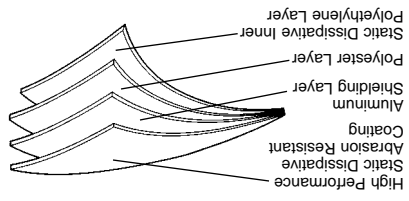


Statshield™ Bag, Shielding, Metal Out Construction

DATE: 1/03

Drawing Number 90300.E

CHARLESWATER LTD.
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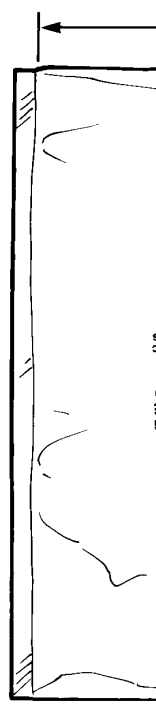
Mixed Unsortable Plastic Scrap

Mixed unsortable plastic scrap shall contain assorted plastics of multiple grades that are co-extruded, bonded or laminated together which are unsortable into individual grades.

Charleswater Europe's bags are recyclable

Trademarks of Desco Industries Inc.
 not acid, and heavy metals.
 ication requirements of MIL-PRF-

EC 61340-5):
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 sed in low



Specifications:

Electrical Properties

Surface Resistance:
 Outer Surface <math>< 10^8</math> ohms
 Aluminum Layer <math>< 10^2</math> ohms
 Inner Surface <math>< 10^{12}</math> ohms
 Static Shielding Charge Generation (nC/m²) <math>< 20</math> nC

Physical Properties:

Bag Thickness:
 Polyester Layer
 Aluminum Layer
 Polyethylene Layer
 Total Thickness 3.0 to 3.1 Mills
 Light Transmission (%) 40% (Tobias)
 Seam Strength Pass
 Tear Strength (lbs) >25
 Puncture Resistance (lbs) >10
 MVTR (gms / 100 in² / 24 hrs, 100°F) 0.40
 Burst Strength (psi) >50 psi
 Heat Seal >10 lbs/in.
 Abrasion Resistance >30 cycles
 Outgassing Pass

Chemical Properties

Corrosion
 Polycarbonate Capability,
 No Amines N-Octanoic Acid

Typical Values

Test Procedures/Method

EO/ESD S11.11 <math>< 10^8</math> ohms
 EO/ESD S11.11 <math>< 10^2</math> ohms
 EO/ESD S11.11 <math>< 10^{12}</math> ohms
 Teflon: -0.03
 Quartz: +0.10
 Capacitance Probe (to dissipate 1 kV) <math>< 30V</math>
 MIL-PRF-81705D, EIA 541
 Modified Incline Plane
 Modified Incline Plane
 MIL-PRF-81705D, EIA 541

0.5 Mills Static Dissipative PET film ASTM D-2103
 10-25 Angstroms
 2.5 Mills Static Dissipative PE film
 ASTM D-2103
 ASTM D-2103
 ASTM D-2103
 ASTM D-1003
 MIL-PRF-81705D
 ASTM D-1004
 ASTM D-2065
 ASTM F-1249
 FTMS 101C, 2065.1
 375°F, 1/2 sec 60 psi
 Sutherland Abr. (.0000 Steel Wool)
 ASTM E595
 No effect on aluminum, copper, silver, Sn-Pb coated foil,
 stainless steel, low carbon steel
 Yes
 Not present

STATSHIELD® M/O SERIES



(mm)

#	Size	Item #	Size	Item #	Size
0	150 x 760	90320	255 x 610	90330	455 x 455
2	200 x 255	90322	280 x 380	90332	455 x 610
4	200 x 305	90324	305 x 405		
5	255 x 305	90326	305 x 455		
3	255 x 355	90328	380 x 455		

Europe ESD Bags Are Generally Reusable

contained within and allow for dissipation of charge from the exterior surface. In addition, the packaging should minimize charging of the ESDS item in response to an external electrostatic field and triboelectrification. They may also lose static shielding properties by crumpling, puncturing and folding.

Some end users reuse a Statshield® Transparent Metal in ESD Shielding Bag up to six times and then discard.

Ideally, the user should test, auditing some percentage of the re-used ESD Bags using test procedures outlined in ANSI EOS/ESD-DS11.11 - 1993 Surface Resistivity Standard, ESD-DS11.12 - 1996 Volume Resistance Measurements of Static Dissipative Planar Materials, and Shielding Materials EOS/ESD DS11.31 - 1994.

Statshield® bags are packaged 100 per package in an oversized shielding bag rather than a cardboard box. Therefore, our bags are not exposed to water vapors that will degrade the metallized shielding layer. Our bags have an additional layer of barrier protection because of our packaging.

Ideally, ESD bags should be stored in a dry, well ventilated room with a reasonably consistent temperature of 68°F (20°C) and be protected from exposure to direct sunlight. Ideally, ESD bags should not be stored in ultraviolet sunlight, moisture, or heat.

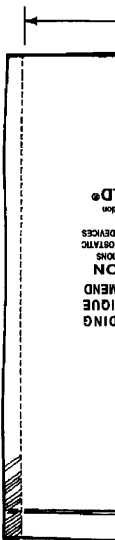
The user shall determine the suitability of the product for their intended use. Charleswater Europe's only obligation shall be to replace such quantity of the product proved to be defective. See full Limited Warranty information at www.charleswater.co.uk/warranty.htm.

- Use Charleswater Europe ESD Bags to meet IEC 61340 5-1 paragraph 6 Protective Packaging states, "The primary functions of protective packaging outside the ESD Protected Area are to:
- limit tribo-electric charging;
 - provide shielding against electrostatic fields and discharges.
 - The packaging shall be capable of providing charge drainage to EPA ground when brought into an EPA."



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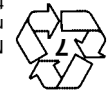


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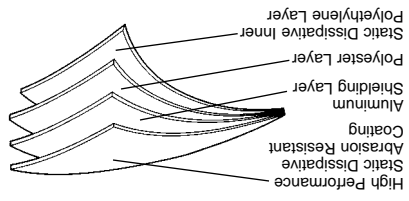
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DATE:
1/03

Statshield™ Bag, Shielding, Metal Out Construction, Zipper



Mixed Unsortable Plastic Scrap
Multiple grades that are co-extruded, bonded or laminated together which are unsortable into individual grades.
Charleswater Europe's bags are recyclable



Specifications:

Electrical Properties
Surface Resistance:
Outer Surface <math>< 10^8</math> ohms
Aluminum Layer <math>< 10^2</math> ohms
Inner Surface <math>< 10^{12}</math> ohms
Static Shielding Charge Generation (nC/m²) <math>< 20</math> nC

Physical Properties:

Bag Thickness:
Polyester Layer
Aluminum Layer
Polyethylene Layer
Total Thickness
Light Transmission (%) 40% (Tobias)
Seam Strength Pass

Chemical Properties

Corrosion
Polycarbonate Capability,
No Amines N-Octanoic Acid

Typical Values

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Teflon: -0.03
EOS/ESD S11.31 <math>< 20</math> nJ
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EOS/ESD S11.11 <math>< 10^8</math> ohms

Test Procedures/Method

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ASTM D-2103 2.5 Mills Static Dissipative PE film
ASTM D-2103 3.0 to 3.1 Mills
ASTM D-1003 40% (Tobias)
ASTM D-1003 Pass
ASTM D-1004 >25
ASTM D-2065 >10
ASTM F-1249 0.40
FTMS 101C, 2065.1 >50 psi
375°F, 1/2 sec 60 psi >10 lbs/in.
Sutherland Abr. (.0000 Steel Wool) >30 cycles
ASTM E595 Pass

No effect on aluminum, copper, silver, Sn-Pb coated foil, stainless steel, low carbon steel
Yes
Not present

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(mm)

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